

Metadata for Wupatki National Monument, Spatial Vegetation Data: Cover type / Association level of the National Vegetation Classification System

Identification_Information:

Citation:

Citation_Information:

Originator: USBR Remote Sensing and GIS Group, Denver, Colorado

Publication_Date: 2004

Title: Vegetation Map: Wupatki National Monument

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: http://biology.usgs.gov/npsveg/wupa/index.html#geospatial_veg_info

Larger_Work_Citation:

Citation_Information:

Originator: M. Hansen, J. Coles, K.A. Thomas, D. Cogan, M. Reid, J. Von Loh, K. Schultz

Publication_Date: 2004

Title: USGS-NPS National Vegetation Mapping Program: Wupatki National Monument, Arizona, Vegetation Classification and Distribution, Final Project Report

Geospatial_Data_Presentation_Form: report

Description:

Abstract: This metadata is for the vegetation and land-use geo-spatial database for Wupatki National Monument and surrounding areas. The project is authorized as part of the USGS/NPS Vegetation Mapping Program. The program is being administered by the Biological Resources Division (BRD), United States Geological Survey (USGS). The USGS/BRD is responsible for overall management and oversight of all ongoing mapping efforts. This mapping effort was performed by the US Bureau of Reclamation's (USBR) Remote Sensing and GIS Group, Technical Service Center, Denver, CO and the USGS Colorado Plateau Research Station, Flagstaff, AZ. The vegetation mapping program is part of a larger Inventory and Monitoring (I&M) program started by the National Park Service (NPS).

Purpose: The purposes of the mapping effort are varied and include the following: Provides support for NPS Resources Management; Promotes vegetation-related research for both NPS and USGS/BRD; Provides support for NPS Planning and Compliance; Adds to the information base for NPS Interpretation; and Assists in NPS Operations. The NPS I&M goals are, among others, to map the vegetation of all national parks and monuments and provide a baseline inventory of vegetation.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 19960603

Currentness_Reference: Date of Aerial Photography

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Description_of_Geographic_Extent: Wupatki National Monument and the environs.

Bounding_Coordinates:

West_Bounding_Coordinate: -111.555810

East_Bounding_Coordinate: -111.249648

North_Bounding_Coordinate: 35.658845

South_Bounding_Coordinate: 35.480134

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Land Cover

Theme_Keyword: Land Use

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Theme_Keyword: Vegetation

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Arizona

Place_Keyword: United States

Place_Keyword: USA

Place_Keyword: North America

Place_Keyword: Flagstaff Area Monuments

Place_Keyword: National Park Service

Place_Keyword: Wupatki National Monument

Access_Constraints: None

Use_Constraints: Acknowledgment of the USGS and USBR/RSGIG would be appreciated in products derived from these data. Any person using the information presented here should fully understand the data collection and compilation before beginning analysis. The burden for determining fitness for use lies entirely with the user.

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan Cogan and Kathryn Thomas

Contact_Organization:

USBR Remote Sensing and GIS Group and USGS Southwest Biological Science Center
Colorado Plateau Research Station

Contact_Position: Cogan: Physical Scientist; Thomas: PhD Ecologist

Contact_Address:

Address_Type: mailing and physical address

Address: Cogan: POB 25007 Bldg 56 D-8260 Denver Federal Center Denver, CO 80225; Thomas: USGS Southwest
Biological Science Center Colorado Plateau Research Station P.O. Box 5614 Flagstaff, Arizona 86011

City: Denver

State_or_Province: CO

Postal_Code: 80225

Country: USA

Contact_Voice_Telephone: Cogan: 303-445-2291 Thomas: 928-556-7327

Contact_Facsimile_Telephone: 303-445-6337

Contact_Electronic_Mail_Address: dcogan@do.usbr.gov; kathryn_a_thomas@usgs.gov

Hours_of_Service: 8:00 - 5:00 MST

Contact_Instructions: For GIS questions contact Cogan, for ecological questions contact Thomas.

Browse_Graphic:

Browse_Graphic_File_Name: <http://biology.usgs.gov/npsveg/wupa/images/wupaveg.jpg>

Browse_Graphic_File_Description: 654 kbyte file showing vegetation associations

Browse_Graphic_File_Type: JPG

Data_Set_Credit: USBR: Janet Coles, Jim Von Loh, Dan Cogan, Doug Crawford, Trudy Meyer, Jean Pennel. USGS:
Kathryn Thomas, Monica Hansen

Native_Data_Set_Environment: Microsoft Windows 2000 Version 5.0 (Build 2195) Service Pack 4; ESRI ArcCatalog
8.2.0.700

Taxonomy:

Keywords/Taxon:

Taxonomic_Keyword_Thesaurus: None

Taxonomic_Keywords: plant communities

Taxonomic_Classification:

Taxon_Rank_Name: Kingdom

Taxon_Rank_Value: Plantae

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: These data have an overall accuracy of 92.2% (91.8% Kappa Index) within a 90%
confidence interval of 91.1 to 93.3%

Logical_Consistency_Report: All polygon features were checked for topology, existence of label points, and label point

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uniqueness. The labels were checked for correct and complete attributing. All nodes were checked for unintentional lines and to ensure that the polygons were closed. All steps performed using ESRI ArcInfo commands.

Completeness_Report: All data that could be interpreted from the aerial photos were digitized in accordance with the minimum mapping unit (MMU) of 1/2 hectare. This included selected features that fell into the National Vegetation Classification and the Anderson Level II land use classification. Some classes below the MMU were included, especially water and wetland features and those at the edge of the study area (i.e. cut off by other features and borders). Roads (to visible right-of-way or fence line) and streams/drainages wider than 10 meters were digitized as polygons and attributed accordingly.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report: Data were transferred to the GIS database using 1:12,000-scale USGS Digital Orthophoto Quarter Quadrangles (DOQQs) as basemaps. As such, the positional accuracy is no better than these products.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report: Data were transferred to the GIS database using 1:12,000-scale USGS Digital Orthophoto Quarter Quadrangles (DOQQs) as basemaps. As such, the positional accuracy is no better than these products.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: USDA - National Forest Service (BY: Merrick & Company 2450 S. Peoria St Aurora, CO 80014 Phone: 303-751-0741)

Publication_Date: 19960603

Title: USDA - USFS Photos (Merrick & Company)

Geospatial_Data_Presentation_Form: aerial photos

Source_Scale_Denominator: 12000

Type_of_Source_Media: Color Infra-red aerial photos

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 19960603

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: National Forest Service Photos

Source_Contribution: Photos used for vegetation interpretation.

Process_Step:

Process_Description:

PHOTO INTERPRETATION: All map classes were interpreted from 1:12,000 scale, color infra-red photography flown in June 1996. The photographs were acquired from the USGS/NPS mapping program. Photo-interpretation used the standard identification features such as tone, texture, color, pattern, topographic position, and shadow. In addition, field sample locations and their vegetation descriptions aided in assigning map classes to each polygon. Photographs were examined using a stereoscope as needed. Linework was created on semi-clear mylars placed over the photos. Due to the poor quality of the photography, additional mapping was performed on the ground using GPS and known landmarks as guides.

GIS PROCEDURES: The linework on the mylar overlays was transferred into the GIS database by one of two methods, either heads-up digitizing or scanning. **METHOD I:** Heads-up digitizing is a procedure whereby the operator digitizes by hand on a computer terminal screen showing a digital image of a DOQQ. By looking at similar features on both the aerial photograph and on the DOQQ, the line drawn on the aerial photo overlay is manually transferred to the digital image. **METHOD II:** Most of SUCR was transferred by digitally scanning the mylar overlays, vectorizing the scanned images, and fitting the resulting linework to corresponding DOQQs using known control points. Extensive cleaning, edge matching, and general editing of the digital vectors was completed before polygon topology was created. Labels were created for each polygon and they were attributed with the necessary vegetation information. The entire transfer and editing sequence was automated via in-house ArcInfo AML programs. The final vegetation coverage consists of vegetation polygons.

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OTHER DATA: Quadrangle and DOQQ border coverages (bndryquad, bndrydoqq) were created by producing tics every 2'30" and 3' 45" respectively and connecting arcs at the tics. The mapping project border coverage (bndryproj) was created by creating a 1-mile buffer around the Monument border and modifying it per the client's request to include additional areas of interest that fell further than 1 mile beyond the border. The Monument border coverage (bndrypark) was acquired from the client. A flightline coverage (bndryflne) was made by digitizing arcs with a DRG on screen and following lines as they appeared on the flightline index map. An aerial photos polygon coverage (bndryphotos) (aerial photos used for photo interpretation) was made by digitizing around the vegetation coverage label points highlighted to show photo number.

Process_Date: 2000-2003

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan Cogan and Kathryn Thomas

Contact_Organization:

USBR Remote Sensing and GIS Group and USGS Southwest Biological Science Center
Colorado Plateau Research Station

Contact_Position: Cogan: Physical Scientist; Thomas: PhD Ecologist

Contact_Address:

Address_Type: mailing and physical address

Address: Cogan: POB 25007 Bldg 56 D-8260 Denver Federal Center Denver, CO 80225; Thomas: USGS Southwest
Biological Science Center Colorado Plateau Research Station P.O. Box 5614 Flagstaff, Arizona 86011

City: Denver

State_or_Province: CO

Postal_Code: 80225

Country: USA

Contact_Voice_Telephone: Cogan: 303-445-2291 Thomas: 928-556-7327

Contact_Facsimile_Telephone: 303-445-6337

Contact_Electronic_Mail_Address: dcogan@do.usbr.gov; kathryn_a_thomas@usgs.gov

Hours_of_Service: 8:00 - 5:00 MST

Contact_Instructions: For GIS questions contact Cogan, for ecological questions contact Thomas.

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Complete chain

Point_and_Vector_Object_Count: 15278

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Label point

Point_and_Vector_Object_Count: 6197

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains

Point_and_Vector_Object_Count: 6197

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point

Point_and_Vector_Object_Count: 100

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:

UTM_Zone_Number: 12

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600

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Longitude_of_Central_Meridian: -111.000000

Latitude_of_Projection_Origin: 0.000000

False_Easting: 500000.000000

False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 0.000016

Ordinate_Resolution: 0.000016

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257222

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: wupa_veg.aat

Entity_Type_Definition: Wupatki National Monument Vegetation Mapping Project: Vegetation Coverage Arc Attribute Table

Entity_Type_Definition_Source: User defined

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: FNODE#

Attribute_Definition: Internal node number for the beginning of an arc (from-node).

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Whole numbers that are automatically generated.

Attribute:

Attribute_Label: TNODE#

Attribute_Definition: Internal node number for the end of an arc (to-node).

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Whole numbers that are automatically generated.

Attribute:

Attribute_Label: LPOLY#

Attribute_Definition: Internal node number for the left polygon.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Whole numbers that are automatically generated.

Attribute:

Attribute_Label: RPOLY#

Attribute_Definition: Internal node number for the right polygon.

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Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Whole numbers that are automatically generated.

Attribute:

Attribute_Label: LENGTH

Attribute_Definition: Length of feature in internal units.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: WUPA_VEG#

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: WUPA_VEG-ID

Attribute_Definition: User-defined feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Whole numbers that are automatically generated.

Attribute:

Attribute_Label: DIGTYPE

Attribute_Definition: User-defined feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: Represents lines that were drawn using heads-up digitizing

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: 2

Enumerated_Domain_Value_Definition: Represents scanned lines that were smoothed.

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: 3

Enumerated_Domain_Value_Definition: Represents lines that are the project boundary.

Enumerated_Domain_Value_Definition_Source: User Defined

Detailed_Description:

Entity_Type:

Entity_Type_Label: wupa_veg.pat

Entity_Type_Definition: Wupatki National Monument Vegetation Mapping Project: Vegetation Coverage Polygon

Attribute Table

Entity_Type_Definition_Source: User defined

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

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Attribute:

Attribute_Label: AREA

Attribute_Definition: Area of feature in internal units squared.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated in squared meters.

Attribute:

Attribute_Label: PERIMETER

Attribute_Definition: Perimeter of feature in internal units.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated in meters.

Attribute:

Attribute_Label: WUPA_VEG#

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: WUPA_VEG-ID

Attribute_Definition: User-defined feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential whole numbers that are automatically generated.

Attribute:

Attribute_Label: COMMENT_1

Attribute_Definition: General description of the map unit.

Attribute_Definition_Source: USGS Colorado Plateau Research Station

Attribute_Domain_Values:

Unrepresentable_Domain: Text

Attribute:

Attribute_Label: COMMENT_2

Attribute_Definition: General comment describing how the map unit relates to other map units.

Attribute_Definition_Source: USGS Colorado Plateau Research Station

Attribute_Domain_Values:

Unrepresentable_Domain: Text

Attribute:

Attribute_Label: DENSITY

Attribute_Definition: Density range for the overstory of the woodland and forest map units.

Attribute_Definition_Source: USGS and USBR Remote Sensing and GIS Group

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: <10%

Enumerated_Domain_Value_Definition: Less than 10% tree cover in the overstory (sparse).

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: 10-25%

Enumerated_Domain_Value_Definition: Tree cover is between 10 and 25% in the overstory.

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: 25-75%

Enumerated_Domain_Value_Definition: Tree cover is between 25 and 75% in the overstory.

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: 75-100%

Enumerated_Domain_Value_Definition: More than 75% tree cover in the overstory (dense).

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Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: <10%

Enumerated_Domain_Value_Definition: Less than 10% tree cover in the overstory (sparse).

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: N/A

Enumerated_Domain_Value_Definition: Density not applicable, this map unit is not a woodland or forest unit.

Enumerated_Domain_Value_Definition_Source: User Defined

Attribute:

Attribute_Label: ECO

Attribute_Definition: Ecological description of the polygon

Attribute_Definition_Source: USGS Colorado Plateau Research Station

Attribute_Domain_Values:

Unrepresentable_Domain: Text

Attribute:

Attribute_Label: ELCODE

Attribute_Definition: NVCS Association code - Community Element Global Code

Attribute_Definition_Source: National Vegetation Classification System

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: National Vegetation Classification System

Codeset_Source: <http://www.natureserve.org/explorer/>

Attribute:

Attribute_Label: FORMATION

Attribute_Definition: NVCS Formation Name

Attribute_Definition_Source: National Vegetation Classification System

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: National Vegetation Classification System

Codeset_Source: <http://www.natureserve.org/explorer/>

Attribute:

Attribute_Label: GROUP

Attribute_Definition: NVCS Group Name(s) and Code(s)

Attribute_Definition_Source: National Vegetation Classification System

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: National Vegetation Classification System

Codeset_Source: <http://www.natureserve.org/explorer/>

Attribute:

Attribute_Label: LUC_II

Attribute_Definition: Land use and land cover (Level II) classification system code and name for the polygon.

Attribute_Definition_Source: Anderson, J.R., E.E. Hardy, J.T. Roach, R.E. Witmer. 1976. Land use and land cover classification system for use with remote sensor data. USGS Professional Paper 964

Attribute_Domain_Values:

Unrepresentable_Domain: Level II Code and Text

Attribute:

Attribute_Label: MAP_CODE

Attribute_Definition: Map Unit Code

Attribute_Definition_Source: USGS and USBR Remote Sensing and GIS Group

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: Cinder Barren

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

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Enumerated_Domain_Value: 2
Enumerated_Domain_Value_Definition: Basalt Outcrop Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 3
Enumerated_Domain_Value_Definition: Active River Channel
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 4
Enumerated_Domain_Value_Definition: Mound Saltbush Badlands Sparse Vegetation
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 5
Enumerated_Domain_Value_Definition: Moenkopi Sandstone Sparse Vegetation
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 6
Enumerated_Domain_Value_Definition: Moenkopi Shale Sparse Vegetation
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 7
Enumerated_Domain_Value_Definition: Sand Bluestem Grassland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 8
Enumerated_Domain_Value_Definition: Black Grama Grassland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 9
Enumerated_Domain_Value_Definition: Needle-and-Thread Grassland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 10
Enumerated_Domain_Value_Definition: Galleta Grassland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 11
Enumerated_Domain_Value_Definition: Galleta Mixed Grasslands
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 12
Enumerated_Domain_Value_Definition: Crinklemat / Alkali Sacaton Dwarf Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 13
Enumerated_Domain_Value_Definition: Snakeweed / Galleta Grassland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 14
Enumerated_Domain_Value_Definition: Galleta Mixed Shrublands
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 15
Enumerated_Domain_Value_Definition: Crispleaf Buckwheat Cinder Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:

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Enumerated_Domain_Value: 16
Enumerated_Domain_Value_Definition: Black Grama Coconino Plateau Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 17
Enumerated_Domain_Value_Definition: Rabbitbrush Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 18
Enumerated_Domain_Value_Definition: Fourwing Saltbush Upland Drainageways
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 19
Enumerated_Domain_Value_Definition: Sand Sagebrush Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 20
Enumerated_Domain_Value_Definition: Mormon Tea Cinder Dune Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 21
Enumerated_Domain_Value_Definition: Apache Plume Cinder Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 22
Enumerated_Domain_Value_Definition: Frosted Mint Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 23
Enumerated_Domain_Value_Definition: Unclassified Mixed Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 24
Enumerated_Domain_Value_Definition: Wupatki Wash System
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 25
Enumerated_Domain_Value_Definition: Sandbar Willow Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 26
Enumerated_Domain_Value_Definition: Little Colorado River Invasive Riparian Shrubland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 27
Enumerated_Domain_Value_Definition: Oneseed Juniper Woodland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 28
Enumerated_Domain_Value_Definition: Fremont Cottonwood Woodland
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:
Enumerated_Domain_Value: 29
Enumerated_Domain_Value_Definition: Transportation Route
Enumerated_Domain_Value_Definition_Source: User Defined
Enumerated_Domain:

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Enumerated_Domain_Value: 30

Enumerated_Domain_Value_Definition: Facilities

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: 31

Enumerated_Domain_Value_Definition: Commercial Development

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: 32

Enumerated_Domain_Value_Definition: Residential Land

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: 33

Enumerated_Domain_Value_Definition: Stock Tanks and Dams

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: 34

Enumerated_Domain_Value_Definition: Strip Mines, Quarries and Gravel Pits

Enumerated_Domain_Value_Definition_Source: User Defined

Enumerated_Domain:

Enumerated_Domain_Value: 35

Enumerated_Domain_Value_Definition: Corrals

Enumerated_Domain_Value_Definition_Source: User Defined

Attribute:

Attribute_Label: NVCS_CODE

Attribute_Definition: NVCS Code(s) to the formation level

Attribute_Definition_Source: National Vegetation Classification System

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: National Vegetation Classification System

Codeset_Source: <http://www.natureserve.org/explorer/>

Attribute:

Attribute_Label: PHOTO

Attribute_Definition: Aerial photo number (flightline-number) from which the polygon was interpreted.

Attribute_Definition_Source: 1:12,000 scale, color infra-red photography flown in June 1996.

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers representing the flightline and aerial photo numbers

Attribute:

Attribute_Label: PHYS

Attribute_Definition: Physiographic description of the polygon

Attribute_Definition_Source: USBR Remote Sensing and GIS Group

Attribute_Domain_Values:

Unrepresentable_Domain: Text

Attribute:

Attribute_Label: SUBCLASS

Attribute_Definition: NVCS Subclass Name(s) and Code(s)

Attribute_Definition_Source: National Vegetation Classification System

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: National Vegetation Classification System

Codeset_Source: <http://www.natureserve.org/explorer/>

Attribute:

Attribute_Label: SUBGROUP

Attribute_Definition: NVCS Subgroup Name(s) and Code(s)

Attribute_Definition_Source: National Vegetation Classification System

Attribute_Domain_Values:

USGS-NPS Vegetation Mapping Program Wupatki National Monument

Codeset_Domain:

Codeset_Name: National Vegetation Classification System

Codeset_Source: <http://www.natureserve.org/explorer/>

Attribute:

Attribute_Label: VEG_NAME

Attribute_Definition: Map Unit Common Name

Attribute_Definition_Source: USGS and USBR Remote Sensing and GIS Group

Attribute_Domain_Values:

Unrepresentable_Domain: Text

Attribute:

Attribute_Label: ALL_CNAME

Attribute_Definition: NVCS Alliance Common Name

Attribute_Definition_Source: National Vegetation Classification System

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: National Vegetation Classification System

Codeset_Source: <http://www.natureserve.org/explorer/>

Attribute:

Attribute_Label: ALL_NAME

Attribute_Definition: NVCS Alliance Scientific Name(s)

Attribute_Definition_Source: National Vegetation Classification System

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: National Vegetation Classification System

Codeset_Source: <http://www.natureserve.org/explorer/>

Attribute:

Attribute_Label: ASSN_CNAME

Attribute_Definition: NVCS Association Common Name(s)

Attribute_Definition_Source: National Vegetation Classification System

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: National Vegetation Classification System

Codeset_Source: <http://www.natureserve.org/explorer/>

Attribute:

Attribute_Label: ASSN_NAME

Attribute_Definition: NVCS Association Scientific Name(s)

Attribute_Definition_Source: National Vegetation Classification System

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: National Vegetation Classification System

Codeset_Source: <http://www.natureserve.org/explorer/>

Attribute:

Attribute_Label: CLASS

Attribute_Definition: NVCS Class Name(s) and Code(s)

Attribute_Definition_Source: National Vegetation Classification System

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: National Vegetation Classification System

Codeset_Source: <http://www.natureserve.org/explorer/>

Overview_Description:

Entity_and_Attribute_Overview: Attributes were either generated by ArcInfo or assigned by the USBR Remote Sensing GIS Group. Attribute values were provided by the USGS Colorado Plateau Research Station and the USBR Remote Sensing GIS Group.

Entity_and_Attribute_Detail_Citation: Wupatki Vegetation Mapping Project Final Report (DOI - USGS/USBR)

USGS-NPS Vegetation Mapping Program Wupatki National Monument

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: U.S. Geological Survey, Center for Biological Informatics, MS 302, Room 8000, Building 810, Denver
Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225

Country: USA

Contact_Voice_Telephone: (303) 202-4220

Contact_Facsimile_Telephone: (303) 202-4219

Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Resource_Description: Downloadable Data

Distribution_Liability: The National Park Service, U.S. Geological Survey, and U.S. Bureau of Reclamation shall not be held liable for improper or incorrect use of the data described and/or contained herein. These data and related graphics and reports are not legal documents and are not intended to be used as such. The information contained in these data is dynamic and may change over time. The data are not better than the original sources from which they were derived. It is the responsibility of the data user to use the data appropriately and consistent within the limitations of geospatial data in general and these data in particular. The related graphics are intended to aid the data user in acquiring relevant data; it is not appropriate to use the related graphics as data. No warranty, expressed or implied, is given as to the accuracy, reliability, or completeness of these data. It is strongly recommended that these data are directly acquired from an USGS or NPS server and not indirectly through other sources which may have changed the data in some way. Although these data have been processed successfully on a computer systems at the National Park Service, U.S. Geological Survey, and U.S. Bureau of Reclamation, no warranty expressed or implied is made regarding the utility of the data on another system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: HTML

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: http://biology.usgs.gov/npsveg/wupa/index.html#geospatial_veg_info

Fees: none

Metadata_Reference_Information:

Metadata_Date: 20040211

Metadata_Review_Date: 20060908

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address:

U.S. Geological Survey, Center for Biological Informatics, MS 302,
Room 8000, Building 810, Denver Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225

USGS-NPS Vegetation Mapping Program
Wupatki National Monument

Country: USA

Contact_Voice_Telephone: (303) 202-4220

Contact_Facsimile_Telephone: (303) 202-4219

Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1:
Biological Data Profile, 1999

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Extensions:

Online_Linkage: <http://biology.usgs.gov/fgdc.bio/bionwext.txt>

Profile_Name: Biological Data Profile FGDC-STD-001.1-1999